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ECONOMIC RELATIONSHIPS IN THE PROVIDENCE, RHODE ISLAND, METROPOLITAN AREA

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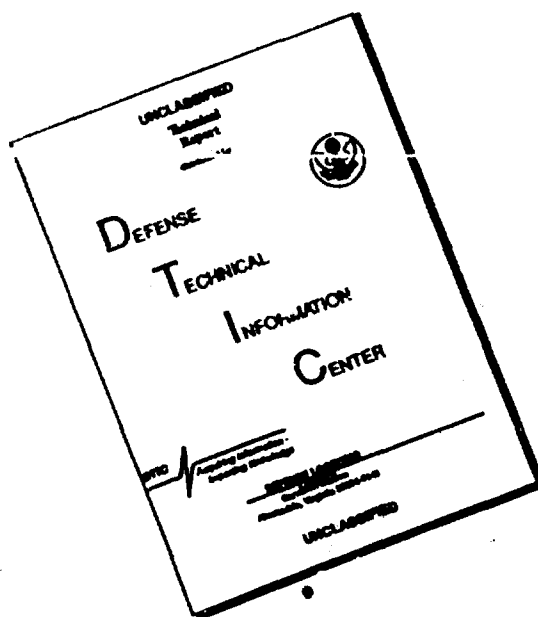


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SUMMARY

This Research Paper presents the 1963 interindustry transactions data and coefficients for the Providence, Rhode Island, Standard Metropolitan Statistical Area in the same form as the 1958 national interindustry table prepared by the Office of Business Economics, U.S. Department of Commerce. The data are presented in five large (removable) tables: Interindustry Transactions, Direct Requirements per Dollar of Gross Output, Total Requirements (Direct and Indirect) per Dollar of Delivery to Final Demand, Imports by Producing Sectors, and Direct Import Requirements per Dollar of Gross Output.

The text of the paper describes the tables, shows how they are used, and suggests feasible applications for these data both in Civil Defense planning and industrial economic planning.

FOREWORD

The research effort underlying the work described in this paper was performed by Brown University under contract to the Institute for Defense Analyses. This work was performed as part of Task Order 4131A, Evaluation of a Crisis-Oriented Civil Defense System under Contract No. OCD-PS-66-113 with the Office of Civil Defense, Department of the Army.

The information presented here is based on empirical data supplied by business concerns and governmental agencies located in the Providence Standard Metropolitan Statistical Area. Dr. Caleb A. Smith of the Economics Department at Brown University supervised the gathering of the data and the development of Interindustry Transaction and Input Tables. IDA supervision and guidance for the study were provided by Mr. William C. Truppner and Dr. Philip A. Newman of the Civil Defense Economics Project. The computer processing and programming required for developing the tables was directed by Mr. Dale L. Moody of IDA. The editing of this report was by Mr. Leonard G. Bates.

Dr. Abner Sachs, Leader
Civil Defense Project

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TABLES

INPUT-OUTPUT MATRICES (Contained in Back-cover Pocket)

- I Interindustry Transactions
- II Direct Requirements Per Dollar of Gross Output
- III Total Requirements (Direct and Indirect) Per Dollar of Delivery to Final Demand
- IV Imports by Producing Sectors
- V Direct Import Requirements Per Dollar of Gross Output

FIGURE

- 1 Providence-Pawtucket-Warwick Standard Metropolitan Statistical Area (Rhode Island - Massachusetts) Showing County Boundaries 8

SUMMARY

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I

INTRODUCTION

The interindustry data for the Providence Rhode Island area are presented here as an aid to both those performing economic research on that specific area and those interested in local input-output analysis in general. The data are presented in five matrices (Tables I through V) inserted in the envelope pocket of this paper. These tables of interindustry transactions and coefficients follow the same classification and definition of sectors as the 1958 national interindustry table prepared by the Office of Business Economics, U.S. Department of Commerce.¹

The tables show in detail what each sector purchases from each other sector within the Providence area as well as from external sources, both domestic and foreign. Similarly, the tables show the distribution of each sector's output to household consumption, business investment, and local and federal government agencies. Exports by each sector to external outlets in the United States and foreign countries are also shown.

The data were developed for an IDA study concerned with the evaluation of alternative civil defense systems. One of these systems, Movement to Shelter (MTS)², proposes to move large segments

1. "The Transactions Table of the 1958 Input-Output and Revised Direct and Total Requirements Data," Survey of Current Business; U.S. Department of Commerce, Office of Business Economics (Washington, D.C.: September 1965). For more detailed sector definitions see Industry Description Appendix to Input-Output Study - 1958; U.S. Department of Commerce, Office of Business Economics (Washington, D.C.: November 1964).

2. Jack Faucett and Grace J. Kelleher, Economic Relationships in the New Orleans Metropolitan Area, Research Paper P-347; G. Kelleher, The Live Saving Potential of Movement-to-Shelter: A Case Study of the New Orleans Metropolitan Area, Study S-302; G. Kelleher and Dale Moody, Economic Impact of Activating a Movement-to-Shelter System: A Case Study of the New Orleans Metropolitan Area, IDA S-303; All are publications of IDA, Program Analysis Division, (Arlington, Va. 1967-68).

of the populatio. from urban areas to reception centers located in peripheral areas of low target interest. With the local input - output table available, it becomes possible to evaluate the effects of interrupting or decreasing production in various sectors of the local economy. This, in turn, provides data to determine which workers to evacuate and in which order.

Another civil defense application of these data would be in post-attack recovery studies where damage assessment evaluation is required to determine the effect of losses in capacity on the local and national economies.

The local input-output data should provide an excellent tool for the study of economic development problems and economic projections in urban development planning. They are of value also in identifying and projecting markets for new products for sale to industrial users and for development of capacity for sales to the local markets by local producers. The local data may be used to determine the degree of self-sufficiency in the area, the dependence of the area on locally produced or imported raw materials, and the importance of transportation links with other parts of the country.

The tables are described in detail in Section II. Section III discusses the procedures used in developing the Providence data.

II

DESCRIPTION OF THE PROVIDENCE SMSA 1963 INPUT-OUTPUT TABLES

A. TABLE I - INTERINDUSTRY TRANSACTIONS

The input-output transactions or flow table for the Providence SMSA follows the same definitions and classifications of sectors as the 1958 national interindustry table prepared by the Office of Business Economics.¹ It shows across the row, how much of a given sector's output was used by each of the industries of the economy to make its own products and how much went to final demand. The columns show the dollar value of each sector's consumption (input) of the raw materials, semi-finished products, and services used from the various local industries, imports, and its value added (the sum of capital consumption allowances, profits and proprietors' incomes, compensation of employees, etc.). The row total (output) for each sector is equal to its column total (input). The gross area product or unduplicated output is the sum of the value-added row in the table.

The Providence table is consistent with the national table with the three following exceptions:

- (1) External factors income flows (shown in the "rest-of world" account in the national table) have not been derived.
- (2) Measures-of-inventory and inventory revaluations were not developed.
- (3) In the national table, competitive imports are shown as transfers to corresponding primary (producing) sectors, whereas in the Providence table all imports are shown as direct inputs to the final consuming sectors.

1. Survey of Current Business, op cit.

B. TABLE II - DIRECT REQUIREMENTS PER DOLLAR OF GROSS OUTPUT

This table shows the interdependence among the various producing industries by characterizing a specialized economy which fabricates semi-processed goods and various business services for combination into still further advanced stages of fabrication. Each column shows the inputs that the consuming sector named at the top of that column requires from each of the industries named at the beginning of the rows to produce one dollar of its output. For example, in order for Sector 1, Livestock and Livestock Products, to produce one dollar of output, it requires .155 of a cent of its own production; 34 cents from Sector 2, Other Agricultural Products; 4.3 cents from Sector 69, Wholesale and Retail Trade; 27 cents from Sector 80, Imports, etc.

This table contains the information necessary to determine what production would be necessary from each and every industry for any one given industry to produce its output for distribution to final demand or to other industries. For example, if Sector 14, Food and Kindred Products, produces \$1 million of net output for sale to the final consumer it would have to produce a total output of \$1,011,481 ($\$1,000,000/1.0-.011351$). Sector 1 would be required to produce \$48,166 ($\$1,011,481 \times .047619$); Sector 68, Electric, Gas, Water and Sanitary Services, would have to produce inputs of \$5,006 ($\$1,011,481 \times .004949$); \$383,514 ($\$1,011,481 \times .379161$) of inputs would have to be imports; and so on for each input to the Food and Kindred Products Sector.

Each sector which received a requirement for its products from Sector 14 places, in turn, demands on other sectors for its inputs. For example, in order for Sector 68 to produce \$5,006 of net output it imposes a demand of \$27 ($\$5,006 \times .005458$) on itself, which requires a total production of \$5,034 ($\$5,006/1.0-.005458$). The level of output of Sector 68 now requires \$14 ($\$5,034 \times .002674$) from Sector 70, Finance and Insurance, and so on through the matrix.

These calculations can be repeated until the total amount of output required from each sector to produce a net output of \$1 million of Food and Kindred Products for the final consumer is

derived. However, these totals can be obtained more directly by the use of the next table in which the relationships in Table II have been completely traced and summarized.

C. TABLE III - TOTAL REQUIREMENTS (DIRECT AND INDIRECT) PER DOLLAR OF DELIVERY TO FINAL DEMAND

The columns of this table show the direct and indirect dollar output that is required from the producing sector named at the beginning of each row for each dollar of deliveries to final demand by the consuming sector.²

Using the same example of producing \$1 million of Food and Kindred Products, it can be seen that it is no longer necessary to trace the demands of output from sector to sector. Instead it is possible to calculate quite simply the total output required to provide final demand with an additional \$1 million of Food and Kindred Products. The column for Sector 14 shows that almost \$1,013,000 ($\$1,000,000 \times 1.012529$) is required in total from Sector 14; over \$48,000 ($\$1,000,000 \times .048291$) from Sector 1; a little over \$6,000 ($\$1,000,000 \times .006124$) from Sector 68; and so on for every sector affected by Sector 14.

D. TABLE IV - IMPORTS BY PRODUCING SECTORS

The Survey of business firms in Providence provided specific information on the local or non-local origin of each input to each sector. This made it possible to allocate the purchases of inputs from sources outside the local economy directly to each of the local sectors, the total being the same as row 80 (Imports) of Table I. These imports are treated here as fixed inputs proportionate to the production of the final products of each sector. Each column

2. See Hollis B. Chenery and Paul G. Clark, Interindustry Economics (New York: 1962, John Wiley & Sons, Inc.) for mathematical procedures for use in converting direct requirements to total requirements.

of Table IV shows the imports that a (local) consuming sector requires from the producing sectors (located outside the economy) named at the beginning of a row.

E. TABLE V - DIRECT IMPORT REQUIREMENTS PER DOLLAR OF GROSS OUTPUT

The direct import requirements relate the imported inputs of each consuming sector to its total output. Each column of the table shows the inputs that the local sector named at the top of that column required from each of the external sectors named at the beginning of the rows to produce a dollar of its output. The difference between Tables II and V is that Table II shows the producing sector of only locally produced inputs whereas Table V shows the producing sectors of only the inputs that are imported.

III

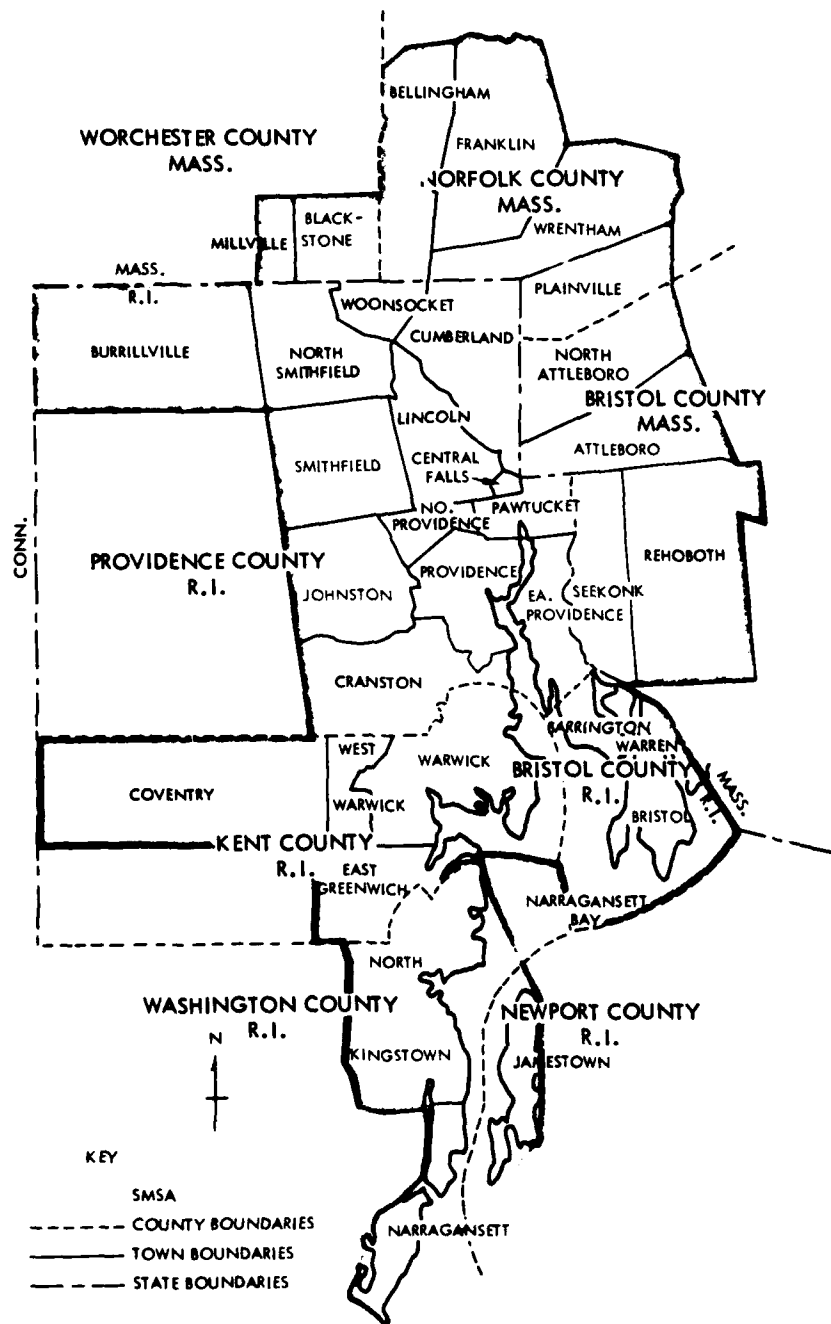
PROCEDURES USED IN DEVELOPING THE INPUT-OUTPUT TABLES¹

As mentioned earlier the table of interindustry transactions for the Providence area is with minor exceptions conceptually and statistically consistent with the national interindustry table of the Office of Business Economics and a similar IDA Input-Output Study of the New Orleans SMSA.² Consistency between the local and national tables makes it possible to relate the component measures of gross area product with those of G.N.P. and, generally, to study the relation of the local economies to the national economy. This section discusses some of the methods used in developing the Providence table.

The SMSA was selected as the area boundary for Providence as in other civil defense studies. However the geographical composition of the Providence SMSA caused a number of problems not encountered in similar local studies. The boundaries of New England SMSA's do not follow county lines (Figure 1). For example, one town in Providence County, Rhode Island, one in Newport County, R. I.,

1. The detailed analyses and complete procedures for developing the Input-Output analysis of the Providence SMSA has been published in a separate report for those students and researchers in the field who may be interested in the exact methods used to develop such a matrix: Dr. Caleb A. Smith, Methods Used in Developing Input-Output Tables for the Providence Standard Metropolitan Statistical Area, 1963, prepared by the Brown University Department of Economics for The Institute for Defense Analyses (IDA Internal Note N-542 R). This publication may be obtained on application to the Department of the Army, Office of Civil Defense, Systems Evaluation Division.

2. Survey of Current Business, op. cit., Faucett and Kelleher, op. cit.



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FIGURE 1. Providence-Pawtucket-Warwick Standard Metropolitan Statistical Area (Rhode Island - Massachusetts) Showing County Boundaries

three towns in Bristol County, Massachusetts, four in Norfolk County, Massachusetts and two in Worcester County, Mass. are included in the SMSA. Obviously, this division among counties and between states posed considerable difficulty in assembling data. In addition, much of the information available on the national and state levels is not available on the local level. Eighty-five percent of the population of Rhode Island is contained in the Providence SMSA. Approximately ten percent of the SMSA population resides in Massachusetts towns.

A. MANUFACTURING

Questionnaires developed jointly with Jack Faucett Associates were sent to manufacturing establishments in the Providence SMSA. Information obtained from these questionnaires, which included inputs by sector and the location inside or outside the SMSA of the supplier, was the basis of the study.³

1. Control Totals

In order to develop input coefficients that would be representative of the product mix of this area, separate output control totals were developed for each four-digit SIC industry in the Providence SMSA. Data on numbers of plants by size groups was compared with figures of the average shipments of all plants in each size group in the United States. The resulting figures for each four-digit industry were used to determine preliminary shipment estimates. These estimates were then compared to total shipment figures for three- and two-digit industries from a special compilation obtained from the Bureau of the Census. Adjusted totals

3. Samples of the questionnaires are presented in the Appendix to the Smith research, IDA Internal Note N-542(R).

were compared with the data developed for the New Orleans study. Obviously, the validity of these output estimates depends on how well a given four-digit industry in the Providence Area is represented by the national average shipments of that employment size group.

2. Input Coefficients

Where a sufficient number of responses to the information questionnaires were obtained, coefficients for material inputs were determined directly. For all other SIC four-digit industries, these coefficients were obtained from an input-output study of the Philadelphia area.⁴ It is believed that these coefficients were more similar to those of the Providence area than the national coefficients developed from OBE worksheets. When the Philadelphia study showed unallocated material inputs for the SICs used in any sector of more than 0.50 percent of output of the sector (and often when the percentage was less than this) the unallocated inputs were allocated, after a study of the OBE table, on the basis of our knowledge of the character of the enterprises in the SMSA. Material inputs for four-digit SICs comprising only 2.05 percent of the estimated output were obtained by inflating data for a broader group, usually all the rest of the sector, while 0.70 percent were obtained from OBE coefficients which pertained to an entire sector.

Only one sector (Sector 65 - Transportation) developed data that were not satisfactory because many establishments showed no inbound transportation costs, and also because questionnaires returned from the trucking industry indicated that only a small portion of inbound transportation charges were paid by the local establishments. However, inputs from questionnaires sent outside the SMSA did include

4. Walter Isard, Thomas W. Langford, Jr., and Eliahu Romanoff, Philadelphia Region Input-Output Study (Unpublished Study).

transportation and warehouse charges. Therefore, to bring these charges down to producer's cost (the conventional way of showing inputs in an input-output tabl) coefficients were calculated from the margins obtained from the Polenske Report.⁵

Inputs for Sector 69 (Wholesale and Retail Trade) could not be obtained from the questionnaires as this would require knowledge by the receiver of the supplier's cost of doing business. The questionnaire did, however, ask whether inputs were obtained from the producer or from wholesalers or retailers located in the Providence SMSA. Almost all purchases by wholesalers were from producers outside the SMSA; all purchases by businesses from wholesalers or retailers were assigned to producers outside the SMSA after deflating for trade margins.

B. NONMANUFACTURING SECTORS

The output of each nonmanufacturing sector was developed separately from census and other published information. The outputs then were compared for consistency to the national totals and the Faucett New Orleans study.

In developing local input coefficients, questionnaires were mailed to firms in the wholesale trade, construction, and transportation industries. However, the poor quality of most replies made it necessary to rely on national figures to estimate inputs for these sectors. Special studies were made of several large utilities in the SMSA and these data were used to supplement national coefficients in estimating inputs to these industries.

C. SECONDARY PRODUCTS

Many plants produce more than one product and in many cases these products are not all grouped in the same sector. The plant

5. K. R. Polenske, Study of Transportation Requirements Using National and Multiregional Input-Output Techniques, Department of Commerce Clearinghouse (Washington, D.C.: April 1967).

is classified in the sector of its principal products and secondary products are usually distributed in the input-output tables with the output of the sector which is producing these products as primary products.

In Providence, transfers were made to Sector 68 (Electric, Gas, Water and Sanitary Services) from Sector 79 (State and Local Government Enterprises). Three transfers were made to Sector 73 (Business Services) from Sector 26 (Printing and Publishing), Sector 66 (Communications), and Sector 67 (Radio and T.V. Broadcasting). All output in Sector 81 (Business Travel, Entertainment and Gifts) and Sector 82 (Office Supplies) are transfers from other sectors.

D. FINAL DEMAND

1. Estimated Personal Consumption Expenditures

Estimation of Personal Consumption Expenditures was done in two steps. First, disposable personal income was estimated by proportioning the Rhode Island personal income by a factor equal to the Providence SMSA proportion of the state population. The 1965 SMSA population was determined by adding the Massachusetts portions modified by the Rhode Island growth factor to the figures from a Special Census of Rhode Island. The naval population on board ships was eliminated from these figures.

Then the SMSA estimated Personal Consumption Expenditure was obtained by multiplying this derived disposable personal income by the ratio of the United States Personal Consumption Income to disposable personal income. Minor adjustments were made to correlate this figure with others estimated by other sources.

2. Government Purchases

Expenditures by the governments of the states of Rhode Island and Massachusetts in the Providence SMSA were not available. State expenditures tend to be concentrated in the capital city, especially in a small state. The population of the SMSA is 95.53 percent of

that of the state of Rhode Island. It seemed reasonable to estimate expenditures in the SMSA by the two state governments at 98 percent of the entire general expenditure by Rhode Island. Total local government expenditures were allocated on a per capita basis for the four cities making up the SMSA (Providence, Pawtucket, Cranston and Warwick).

Expenditures by the Federal Government were estimated by using information on numbers of persons employed and median earnings of these government employees from the 1960 census.

Only new construction expenditures were reported by the State governments. For local expenditures, the state ratio of total capital outlay was used. Federal purchases of new construction were estimated by using the ratio of these purchases to state and local purchases in the 1958 national input-output table.

3. Gross Private Fixed Capital Formation

The Census of Manufactures reports new capital expenditures by two- and three-digit SIC codes for the Providence SMSA. Capital expenditures for SIC major industry groups 21, 24, 25, 29, and 37, which amounted to less than four percent of the amount for all manufacturing industries, is not specified between groups because of disclosure restrictions. These industry groups are relatively unimportant in the SMSA, estimated shipments for them amounting to 3.7 percent of the shipments of all manufacturers in the SMSA. Capital expenditures for each of these groups were estimated in proportion to their estimated shipments. For the manufacturing sector, the reported amount by the Bureau of Labor Statistics of 22 percent of the total was used as an adjustment to allocate the dollar expenditures reported by the Census of Manufactures to account for capital investment in Sectors 13 to 64.

For the nonmanufacturing sectors, estimates were developed by applying the ratio of output to capital flow shown for the sector for 1958 to the output estimated for each sector for 1963 in the Providence SMSA.

Table 1. INTERINDUSTRY TRANSACTIONS, 1963, PROVIDENCE SMSA
(In Thousands of Dollars at Producers' Prices)

The data presented are a gross export of goods and services from each producing industry. Imports in total are shown as a negative entry, i.e., -1000 or -1000 Rf.

DA 7-144 (Rev. 10-15-64) Replaces DA Form 7-144, The Police Study Unit, Metropolitan Area

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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Table II. DIRECT REQUIREMENTS PER DOLLAR OF GROSS OUTPUT
PROVIDENCE SMSA, 1963
(Producers' Prices)

PRODUCING SECTOR \ CONSUMING SECTOR														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. Food and kindred products	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2. Textile mill products	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
3. Lumber and wood products	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
4. Chemical and allied products	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5. Stone, clay and glass products	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
6. Miscellaneous manufacturing	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
7. Transportation equipment	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
8. Instruments, related products, and electronic equipment	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
9. Miscellaneous non-durable goods	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
10. Durable goods	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
11. Construction	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
12. Wholesale and retail trade	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
13. Food service	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
14. Health, education, and recreation	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
15. Government	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
16. Total	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

(Data for 1963 from the Bureau of Economic Analysis, Bureau of Economic Analysis)

[illegible]

Table III. TOTAL REQUIREMENTS (DIRECT AND INDIRECT) PER DOLLAR OF DELIVERY TO FINAL DEMAND
PROVIDENCE SMSA, 1963
(Producers' Prices)

[illegible]

(1) & (2) - same as ge testings in the Pym section, Blake Island, Metropolitan Area

VAL DEMAND

[illegible]

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Category	Product	Model	Price	Weight	Dimensions	Power	Speed	Capacity	Features	Accessories	Warranty	Notes
Office Equipment	Typewriter	Model 100	120.00	15.00	14.00 x 10.00 x 5.00	110V	10 WPM	100 sheets	Carbon copy	Carriage return	1 year	Standard
		Model 101	130.00	16.00	14.00 x 10.00 x 5.00	110V	12 WPM	120 sheets	Carbon copy	Carriage return	1 year	Standard
		Model 102	140.00	17.00	14.00 x 10.00 x 5.00	110V	14 WPM	140 sheets	Carbon copy	Carriage return	1 year	Standard
		Model 103	150.00	18.00	14.00 x 10.00 x 5.00	110V	16 WPM	160 sheets	Carbon copy	Carriage return	1 year	Standard
Office Equipment	Calculator	Model 200	80.00	10.00	10.00 x 8.00 x 4.00	110V	100 numbers	1000 operations	Slide rule	Carriage return	1 year	Standard
		Model 201	90.00	11.00	10.00 x 8.00 x 4.00	110V	120 numbers	1200 operations	Slide rule	Carriage return	1 year	Standard
		Model 202	100.00	12.00	10.00 x 8.00 x 4.00	110V	140 numbers	1400 operations	Slide rule	Carriage return	1 year	Standard
		Model 203	110.00	13.00	10.00 x 8.00 x 4.00	110V	160 numbers	1600 operations	Slide rule	Carriage return	1 year	Standard
Office Equipment	Adding Machine	Model 300	180.00	20.00	18.00 x 12.00 x 6.00	110V	100 numbers	1000 operations	Slide rule	Carriage return	1 year	Standard
		Model 301	190.00	21.00	18.00 x 12.00 x 6.00	110V	120 numbers	1200 operations	Slide rule	Carriage return	1 year	Standard
		Model 302	200.00	22.00	18.00 x 12.00 x 6.00	110V	140 numbers	1400 operations	Slide rule	Carriage return	1 year	Standard
		Model 303	210.00	23.00	18.00 x 12.00 x 6.00	110V	160 numbers	1600 operations	Slide rule	Carriage return	1 year	Standard
Office Equipment	Fax Machine	Model 400	250.00	25.00	20.00 x 15.00 x 7.00	110V	100 numbers	1000 operations	Slide rule	Carriage return	1 year	Standard
		Model 401	260.00	26.00	20.00 x 15.00 x 7.00	110V	120 numbers	1200 operations	Slide rule	Carriage return	1 year	Standard
		Model 402	270.00	27.00	20.00 x 15.00 x 7.00	110V	140 numbers	1400 operations	Slide rule	Carriage return	1 year	Standard
		Model 403	280.00	28.00	20.00 x 15.00 x 7.00	110V	160 numbers	1600 operations	Slide rule	Carriage return	1 year	Standard
Office Equipment	Shredder	Model 500	160.00	18.00	16.00 x 12.00 x 6.00	110V	100 numbers	1000 operations	Slide rule	Carriage return	1 year	Standard
		Model 501	170.00	19.00	16.00 x 12.00 x 6.00	110V	120 numbers	1200 operations	Slide rule	Carriage return	1 year	Standard
		Model 502	180.00	20.00	16.00 x 12.00 x 6.00	110V	140 numbers	1400 operations	Slide rule	Carriage return	1 year	Standard
		Model 503	190.00	21.00	16.00 x 12.00 x 6.00	110V	160 numbers	1600 operations	Slide rule	Carriage return	1 year	Standard
Office Equipment	Copier	Model 600	300.00	30.00	24.00 x 18.00 x 8.00	110V	100 numbers	1000 operations	Slide rule	Carriage return	1 year	Standard
		Model 601	310.00	31.00	24.00 x 18.00 x 8.00	110V	120 numbers	1200 operations	Slide rule	Carriage return	1 year	Standard
		Model 602	320.00	32.00	24.00 x 18.00 x 8.00	110V	140 numbers	1400 operations	Slide rule	Carriage return	1 year	Standard
		Model 603	330.00	33.00	24.00 x 18.00 x 8.00	110V	160 numbers	1600 operations	Slide rule	Carriage return	1 year	Standard
Office Equipment	Printer	Model 700	220.00	22.00	18.00 x 14.00 x 6.00	110V	100 numbers	1000 operations	Slide rule	Carriage return	1 year	Standard
		Model 701	230.00	23.00	18.00 x 14.00 x 6.00	110V	120 numbers	1200 operations	Slide rule	Carriage return	1 year	Standard
		Model 702	240.00	24.00	18.00 x 14.00 x 6.00	110V	140 numbers	1400 operations	Slide rule	Carriage return	1 year	Standard
		Model 703	250.00	25.00	18.00 x 14.00 x 6.00	110V	160 numbers	1600 operations	Slide rule	Carriage return	1 year	Standard
Office Equipment	Scanner	Model 800	280.00	28.00	22.00 x 16.00 x 7.00	110V	100 numbers	1000 operations	Slide rule	Carriage return	1 year	Standard
		Model 801	290.00	29.00	22.00 x 16.00 x 7.00	110V	120 numbers	1200 operations	Slide rule	Carriage return	1 year	Standard
		Model 802	300.00	30.00	22.00 x 16.00 x 7.00	110V	140 numbers	1400 operations	Slide rule	Carriage return	1 year	Standard
		Model 803	310.00	31.00	22.00 x 16.00 x 7.00	110V	160 numbers	1600 operations	Slide rule	Carriage return	1 year	Standard
Office Equipment	Fax Machine	Model 900	350.00	35.00	26.00 x 20.00 x 9.00	110V	100 numbers	1000 operations	Slide rule	Carriage return	1 year	Standard

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(In Thousands of Dollars at Producers' Prices)

* t_3 control is a 40% inter-industry transactions ratio, Providence SMSA, 1963

IDA # 124 E. Jones - Relationships - the Providence, Rhode Island, Metropolitan Area.

1	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2	Paints and Allied Products	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
3	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
4	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
5	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
6	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
7	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
9	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
10	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
11	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
12	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
13	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
14	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
15	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
16	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
17	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
18	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
19	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
20	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
21	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
22	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
23	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
24	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
25	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
26	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
27	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
28	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
29	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
30	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
31	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
32	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
33	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
34	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
35	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
36	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
37	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
38	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
39	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
40	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
41	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
42	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
43	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
44	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
45	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
46	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
47	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
48	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
49	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
50	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
51	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
52	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
53	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
54	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
55	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
56	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
57	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
58	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
59	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
60	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
61	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
62	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
63	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
64	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
65	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
66	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
67	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
68	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
69	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
70	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
71	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
72	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
73	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
74	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
75	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
76	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
77	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
78	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
79	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
80	Paint, Clearing Preparation	100	kg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	

Line	Account Description	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2
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Table V. DIRECT IMPORT REQUIREMENTS PER DOLLAR OF GROSS OUTPUT
PROVIDENCE SMSA, 1963
(Producers' Prices)

[illegible]

134 - 246 Rept. with cm the Pres. office, 44 New Island, Metropolitan Area.

Chemical and Allied Products	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	122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13. ABSTRACT		
<p>This Research Paper presents the 1963 interindustry trans- actions data and coefficients for the Providence, Rhode Island, Standard Metropolitan Statistical Area in the same form as the 1958 national interindustry table prepared by the Office of Business Economics, U.S. Department of Commerce. The data are presented in five large (removable) tables: Interindustry Transactions, Direct Requirements Per Dollar of Gross Output, Total Requirements (Direct and Indirect) per Dollar of Delivery to Final Demand, Imports by Producing Sectors, and Direct Import Requirements Per Dollar of Gross Output.</p> <p>The text of the paper describes the tables, shows how they are used, and suggests feasible applications for these data both in Civil Defense planning and industrial economic planning.</p>		

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